## **AMENDMENTS TO THE CLAIMS**

1. (currently amended) A method of correcting the radial runout variation across the peripheral surface of the tread elements <u>lugs</u> of a tire; comprising the steps of:

locating the tire's center axis;

measuring a plurality of radial points in different locations about a circumference of the tire in each of several circumferential planes located between the tread shoulders; wherein the circumferential planes correspond to tread lugs;

determining a radial low point <u>from the plurality of radial points in different locations</u> on the tread elements peripheral surface in <u>for</u> each of several circumferential plane between the tread shoulders;

determining a virtual tread profile from the radial low points; and engaging a tread removal means to remove tread rubber to match the tread profile to the virtual tread profile.

- 2. (original) The method of claim 1 wherein the measurements are taken in at least three circumferential planes.
- 3. (previously presented) The method of claim 1 wherein the measurements are taken in at least five circumferential planes.
- 4. (previously presented) The method of claim 1 wherein the virtual tread profile is asymmetrical.
- 5. (previously presented) The method of claim1 further includes controlling the movement of the tread removal means by directing the movements to follow the virtual tread profile.
- 6. (original) The method of Claim 1 further includes controlling the rotational movement of the tire as the tread removal means traverses across the tread.

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7. (original) An apparatus for measuring a tire tread profile and truing said tire comprises

a base having linear bearing guide rails for directing movement in an X direction parallel to the axis of the tire to be measured and trued;

a profile measuring device mounted on a movable sled, the sled having linear bearings attached to the guide rail bearings;

a truing device assembly mounted on a movable carriage, the carriage having linear bearings attached to the guide rail bearings; and

a tire rotation device.

8. (original) The apparatus of claim 7 further comprises:
an electronic control system including a computer and software for
compiling measurement data and establishing a virtual template to true the tire; the
control system directs the movement of the truing device assembly.

- 9. (currently amended) The apparatus wherein the of claim 7 wherein the truing device assembly includes a truing cutter, truer device assembly having a Y direction movable carriage mounted to the X direction movable sled.
- 10. (original) The apparatus of claim 9 wherein the truer cutter includes a Z axis pivot system.

This listing of claims will replace all prior versions and listings of claims in the application.